Declassified in F	Part - Sanitized Copy Approved for Release 2013/08/07	: CIA-RDP78	-03624A000900010	002-9
`	CONFIDENTIAL		Schwert March	50X1
	ORIG COMP SO OPI 56 TYPE O ORIG CLASS PAGES REV GLASS SINEXT REV 2000 AUTH: HR 16-2	l Decembe	er 1953	
	Chief, SR	INFO:		50X1
,	Attn: Chief,			50X1
	Long Range Ba	alloon		50X1
	Reference:		•	50X1
	1. is currently shipping t as per reference A.	the	sample balloon	50X1 50X1
	2. Crate No. 1, the smaller of the reinforced for secure shipment. It contains polyethylene envelope (capacity: 115 cubis suspension strings and rings.  3. Crate No. 2 contains 8 ballast as on the frame together with the automatic limechanism and a rubber bladder as well as cap.	ins the tea ic meters), nd working high altitu	r drop shaped with lines, weights mounted de release	
	4. instructions for handling in Attachment A.	g the ballo	on are contained	50X1
	•		. 1	·
				50X1
	APPROVE:			50X1
	30 November 1953			
	ENCL: One (1) - Attach. A, "Instructions for Handling Balloons."	3		50X1
	DIST: 2 - SR (w/2 cys Attachs. A) 3 - (w/1 cy. attach. A) 1 - (w/1 cy. Attach. A)		· · · · · · · · · · · · · · · · · · ·	50X1
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	Instructions for Handling the	Long Range Balloon	50X1

1. During transportation, the crates should be handled carefully and should not be thrown about.

50X1

2. Caution should be exercised in opening the crates so as not to damage the balloon envelope and the accessories.

50X1

- 3. Do not unroll the balloon directly on the ground. Use a tarpaulin to protect the envelope.
- 4. When filling the envelope with hydrogen, the following should be borne in mind:
  - a. Avert possible damage to the envelope by the nozzle of the gas hose.
  - b. The envelope can be damaged if the flow of gas is too strong. Do not allow the impact of the gas km flow to strike directly on the envelope.
  - c. When inflating the envelope, make sure that there are no air pockets left. It is advisable to hold the top of the balloon off the ground to allow an even spread of gas.
  - d. As the envelope is filling up with gas, it is important that the part above the first ring (Ref. B, Fig. I, 4) be filled first, before the part below the ring. Also it is imperative that the tension on the lines (Ref. B, Fig. I, 2) is even and that these lines do not get entangled.
- 5. Normally it takes 40 to 50 minutes to fill a balloon and from 42 to 45 cubic meters of hydrogen.
- 6. While inflating the balloon, the gas hoses should be introduced into the envelope for approximately the whole length of the appendage. At the same time the appendage aperture should be somewhat below the nozzle of the gas hose. The appendage should be securely flattened and not allowed to stretch as the envelope is being inflated.
- 7. When the frame is suspended with the weights and the automatic altitude release mechanism, use the special round shaped needle, enclosed with the material, to sew the protective cap, in at least 8 places (16 spots would be better). A double thread should be used. Before the suspension of the frame, remove the safety strings which strap each cargo to the horizontal hoop of the frame. While sewing, be careful so as not to sew one of the working lines inadvertently.
- 8. Before launching, be sure to remove the safety string from the rod of the automatic high altitude release mechanism.
- 9. Choose a suitable launching site well protected from sudden wind blasts.

NOTE: In case of a long period of storage, the automatic high altitude release mechanism should be checked for correct operation in a vacuum chamber and, if necessary re-adjusted by changing the volume of air contained in the rubber bladder.